A Plethora of Partnerships

&

Observational Examples

Kelly T. Redmond

Western Regional Climate Center

Desert Research Institute

Reno Nevada

RISA Annual PI Meeting

2015 Jan 13-15

Charleston SC

Western Regional Climate Center

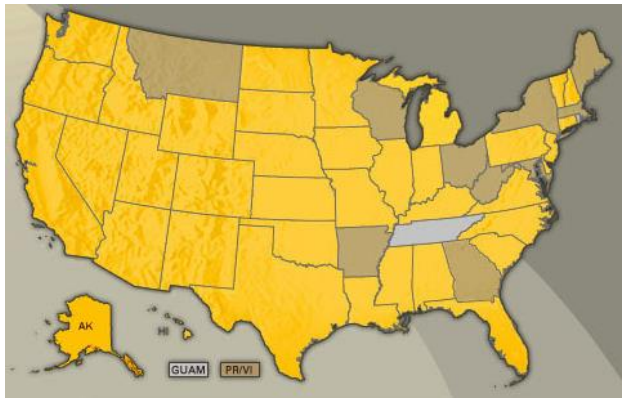
Southwest Climate Science Center

Great Basin Landscape Conservation Cooperative

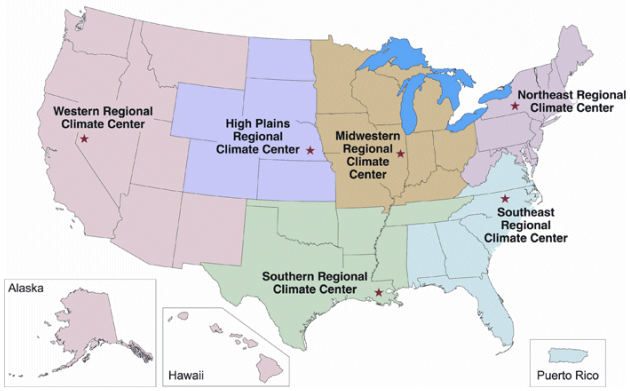
CNAP California-Nevada Climate Applications Program

NIDIS

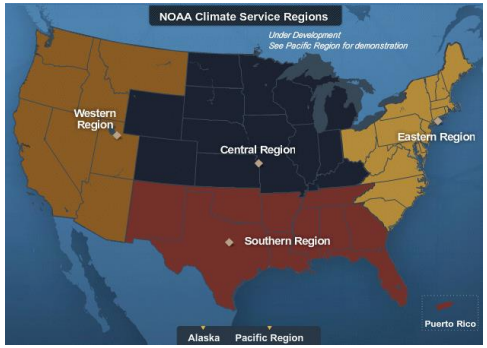
State and regional climate services: A Complex Ecology



State Climate Offices (states)

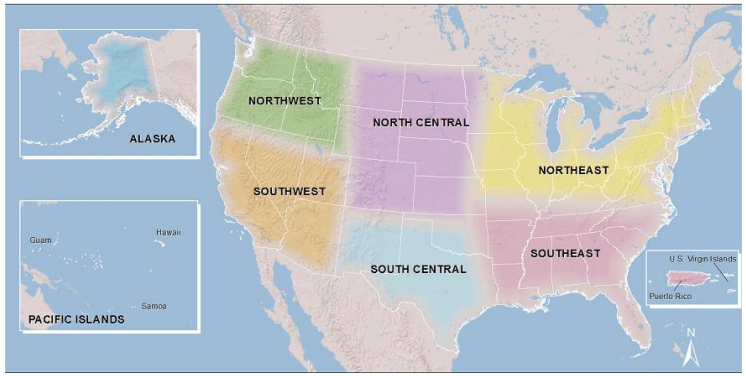


Regional Climate Centers (NOAA)

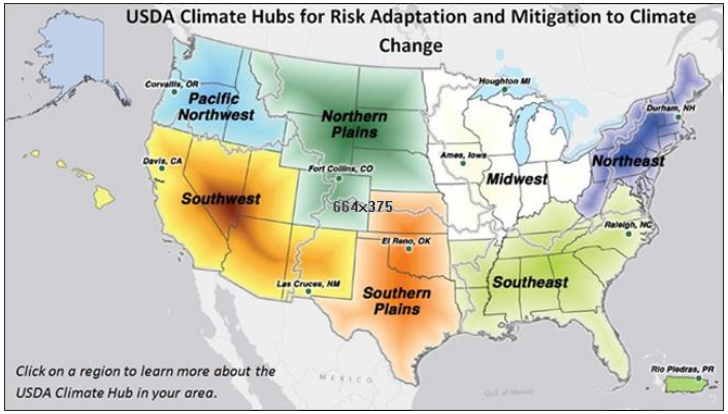


Regional Climate Service Directors (NOAA)

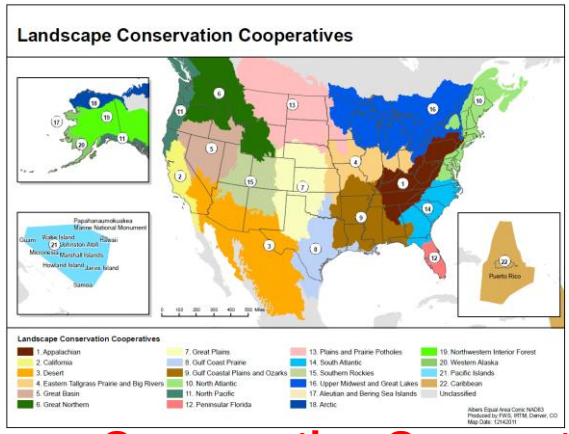
Regional Integrated Sciences & Assessments (NOAA)



Climate Science Centers (USDI)



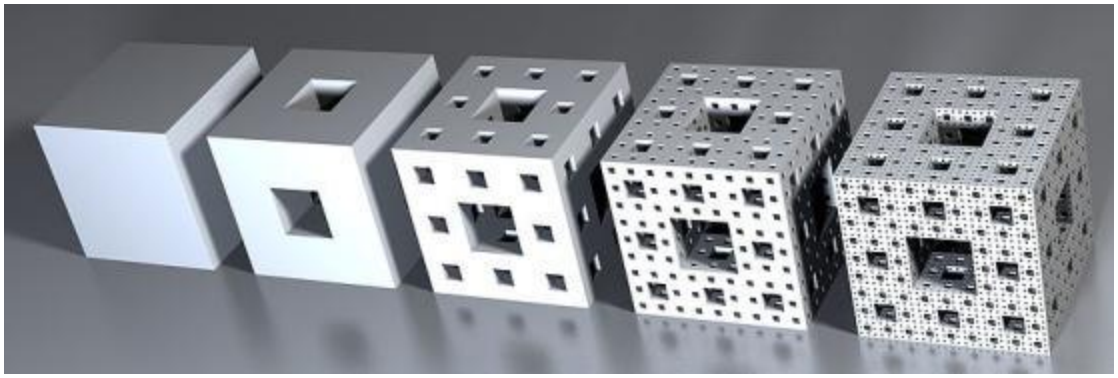
Regional Climate Hubs (USDA)



Landscape Conservation Cooperatives (USDI)

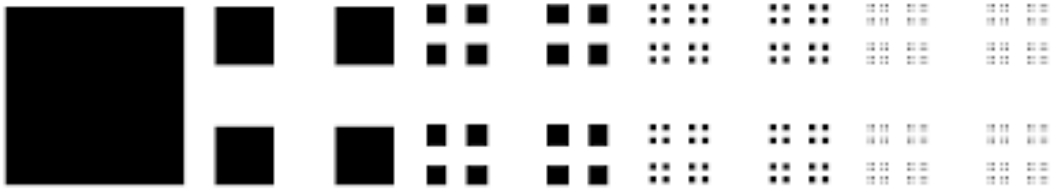
How much do we or can we know?
Sparse Knowledge Structures
Constant Shifting of Players

Menger Sponge



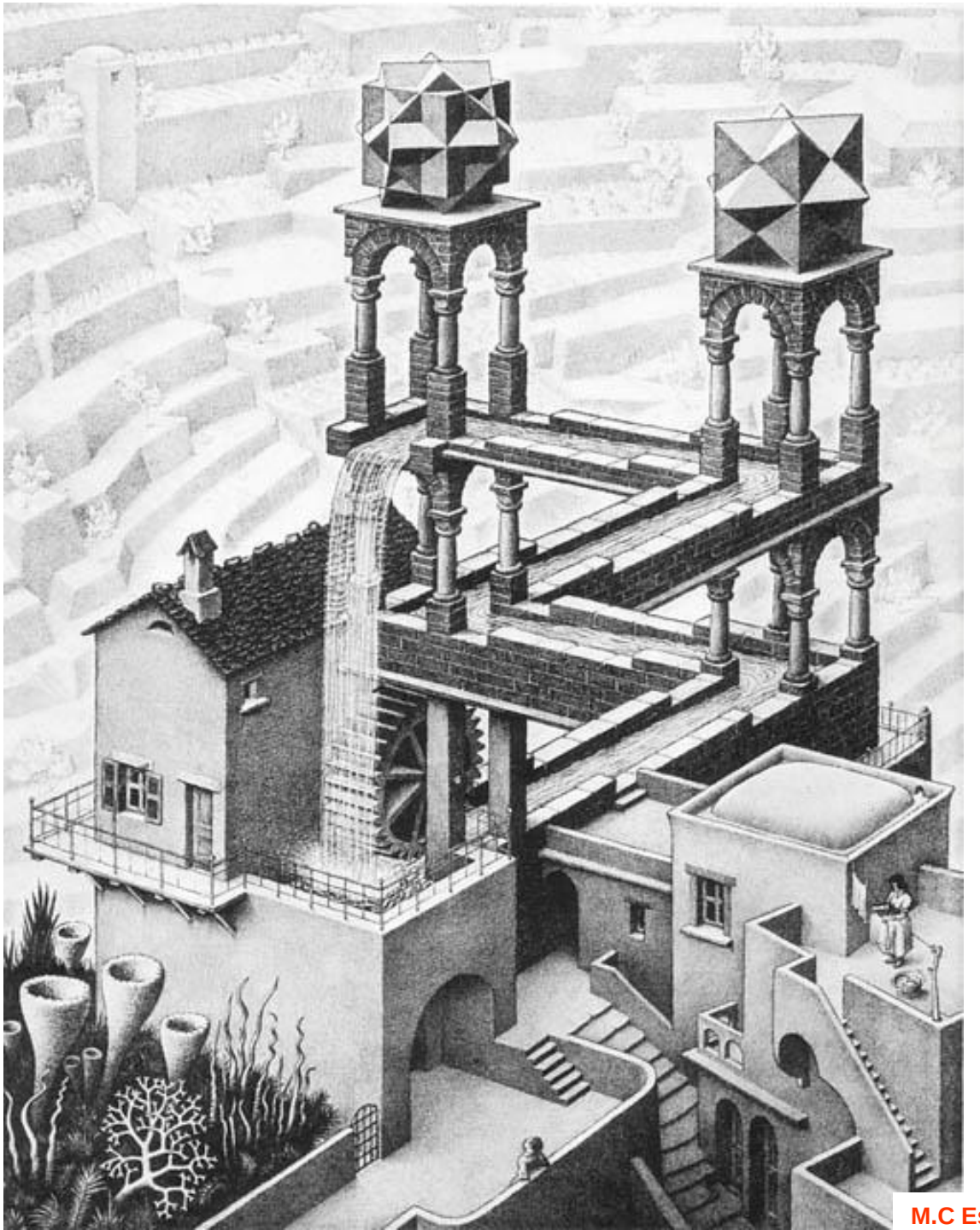
Sierpinski Gasket

Cantor Dust

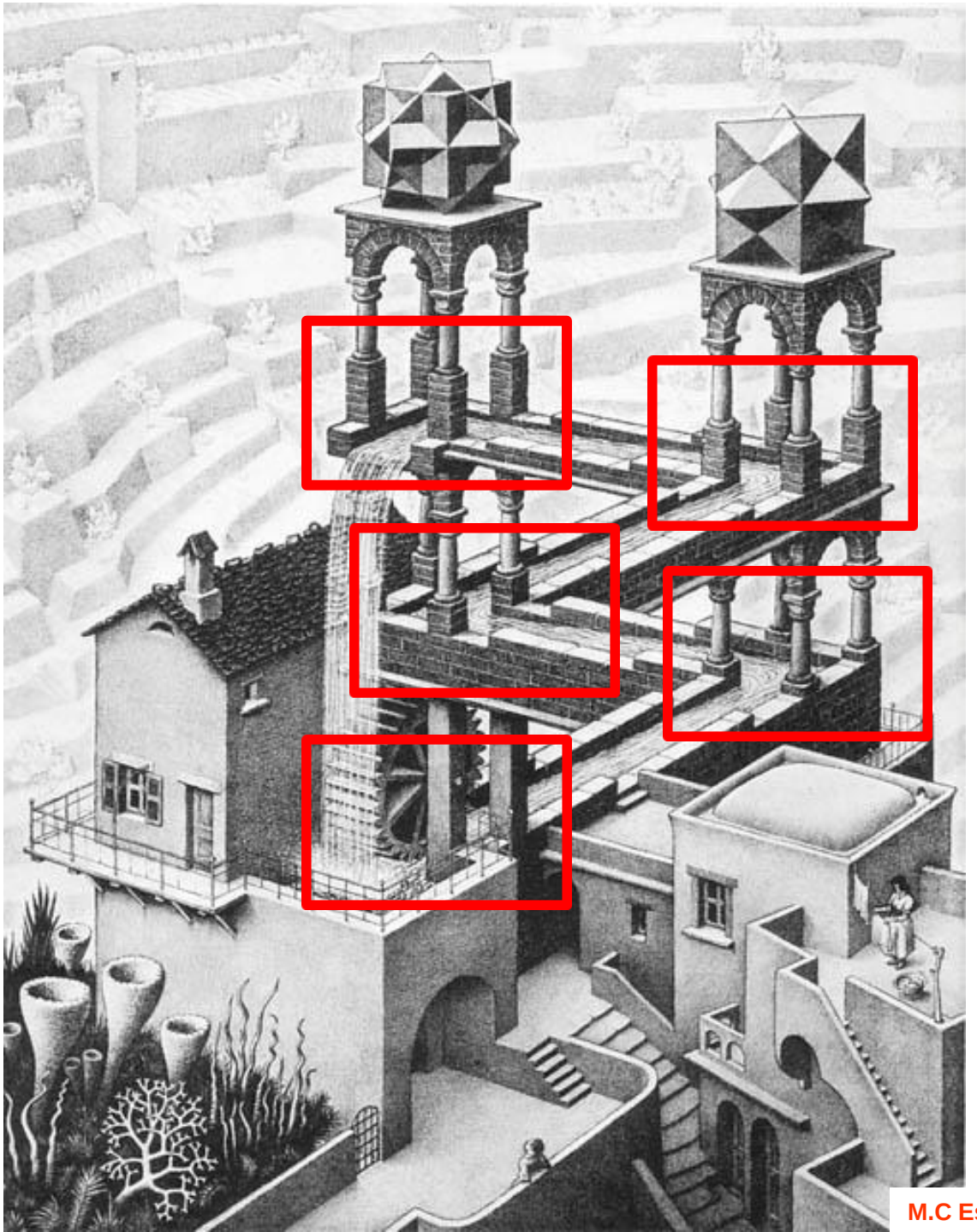


Bar Code Verification #1

Bar Code Verification #2



M.C Escher, Waterfall, 1948



A Pattern We Often Witness

Local Sense
vs
Global Nonsense

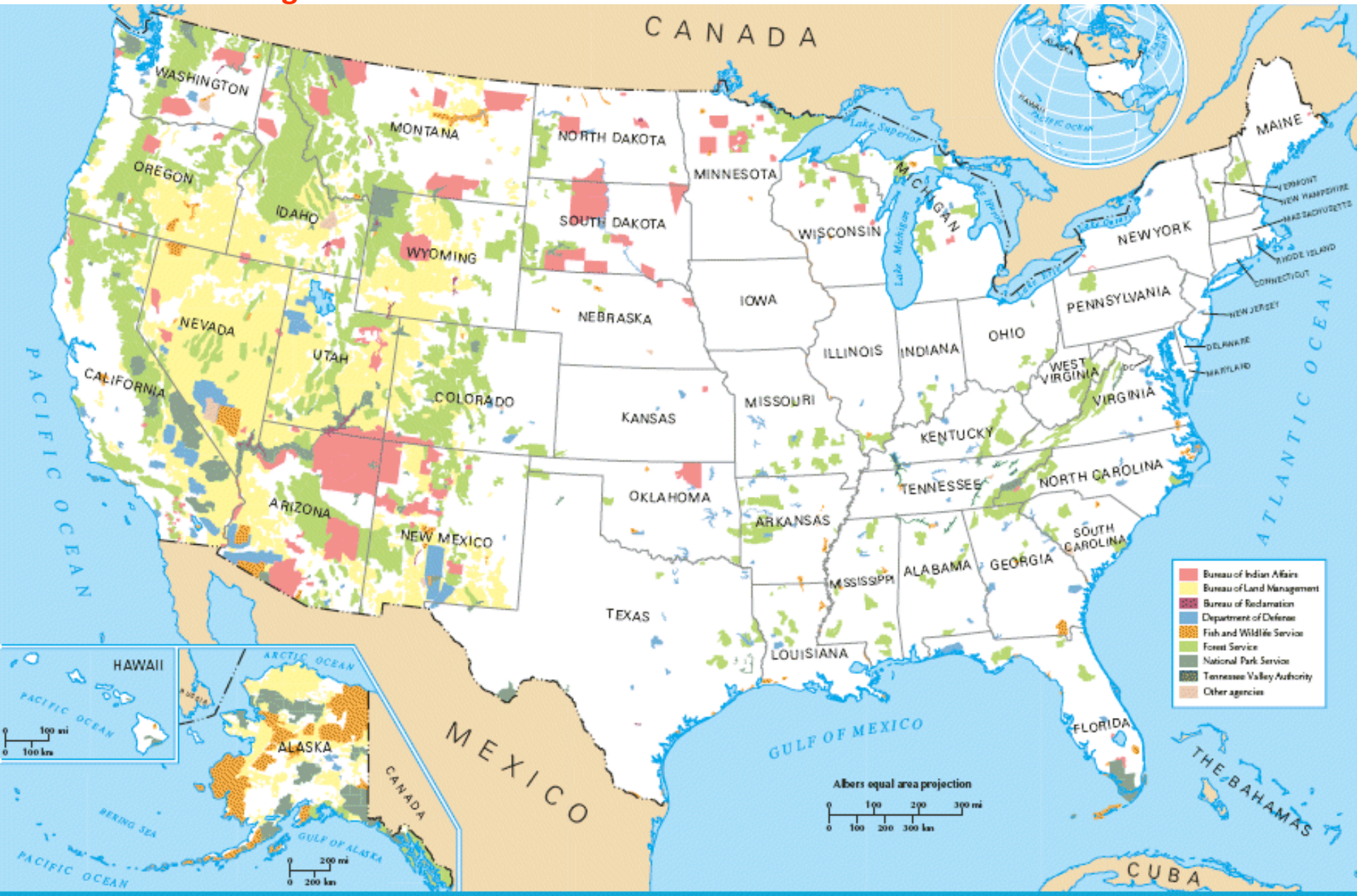
- - - - -

“Natural” systems
vs
Human systems

M.C Escher, Waterfall, 1948

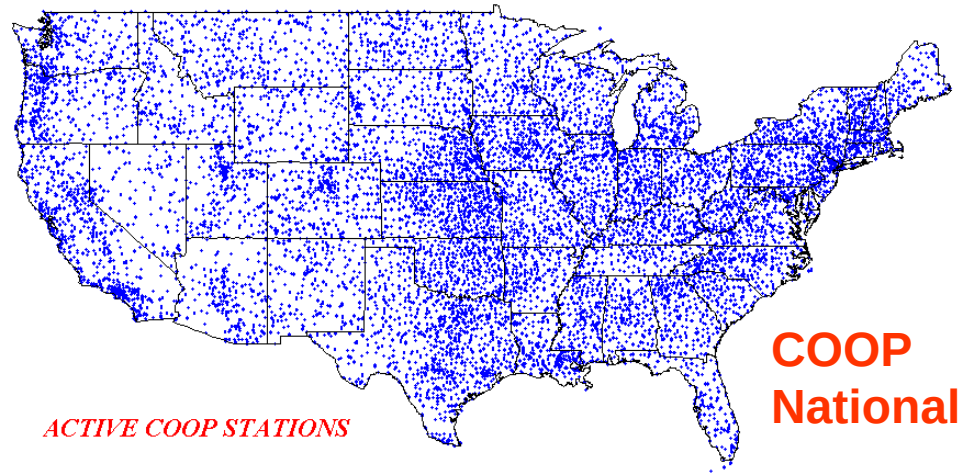
Federal Lands of the United States.

West Contiguous 47 %. West with Alaska-Hawaii 54 %. 13 States: 93 % US Total

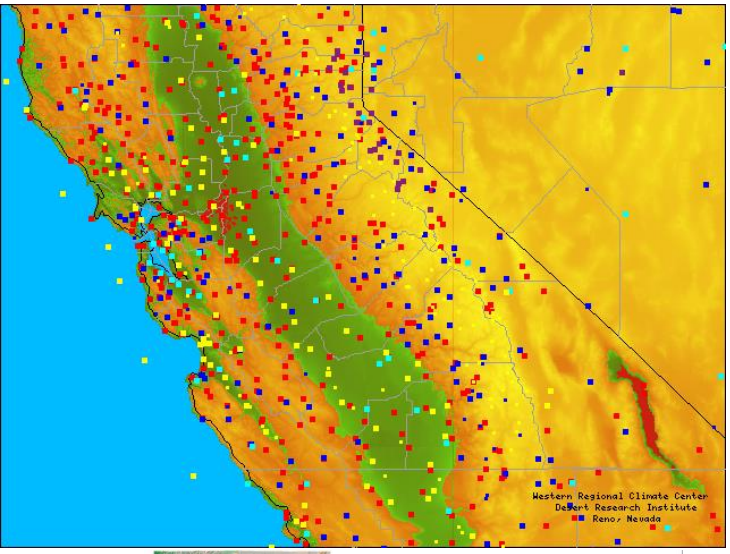


U.S. Department of the Interior
U.S. Geological Survey

The National Atlas of the United States of America®

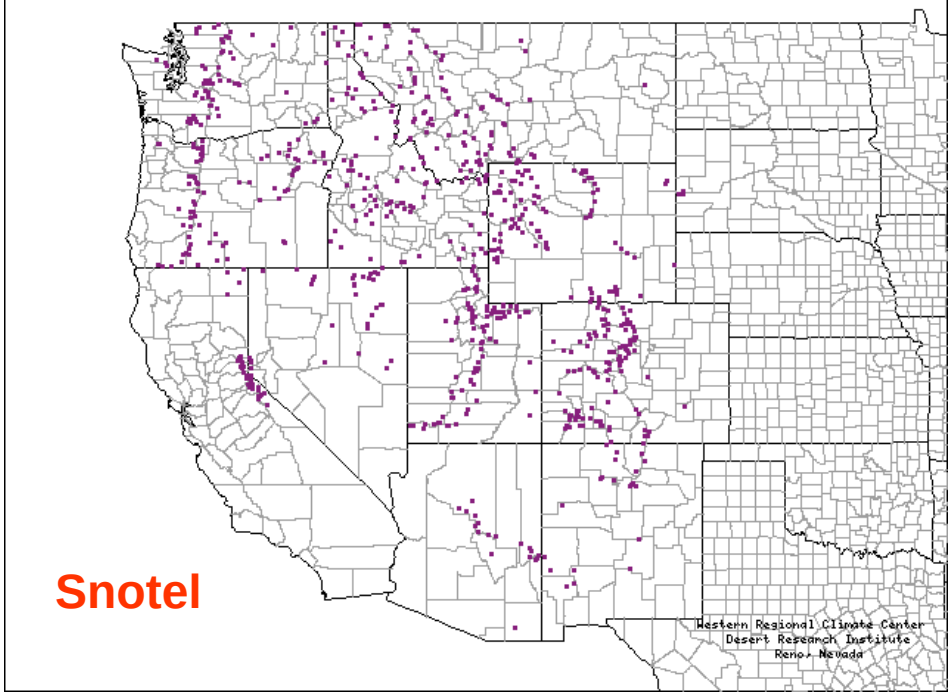


COOP National

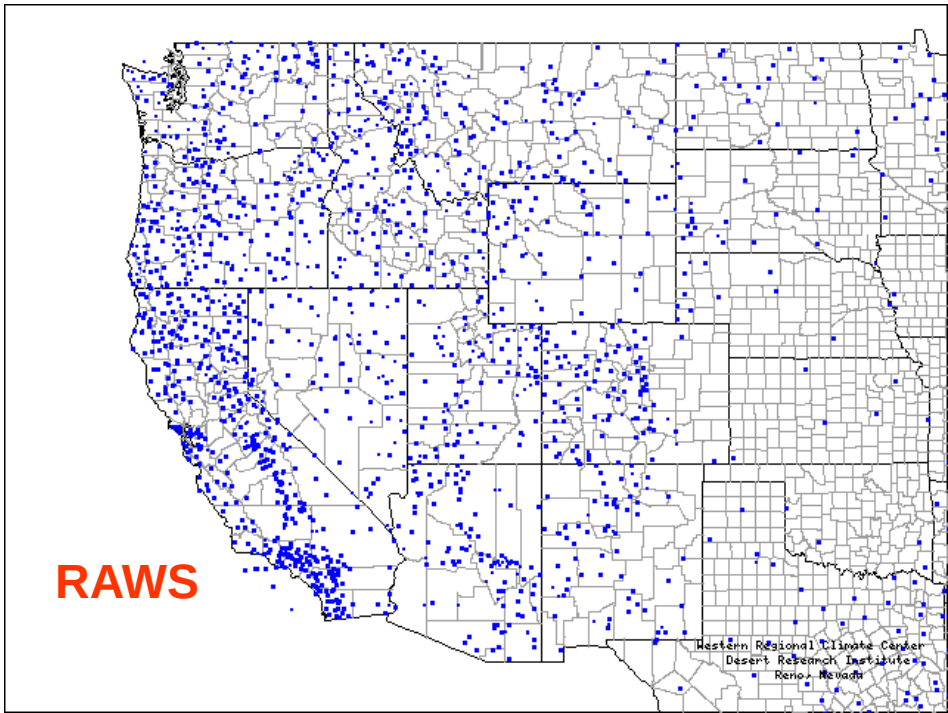


California Multiple Networks

UC Natural Reserve System (Education And Ecology)



Snotel



RAWS

The Role of Observations in Climate Services

One. Philosophical and theoretical.

How, how much, do observations influence opinions/attitudes about climate ?

Do they?

Ratification of prior beliefs?

Verification of projected or expected outcomes.

How much does new information make a difference?

Observations perceived as "real," forecasts perceived more as speculation

An ounce of observation is worth a pound of forecast.

(Mostly)

The Role of Observations in Climate Services

Two. Practical.

All climate service activities need access to data and observations.

A cross-cutting activity among all players.

Almost all climate service activities need observationally based products.

The world of observations requires significant specialized knowledge.

Structures for proc data have to be quasi-operational.

Significant infrastructure in place: utilize it or help make it function better.

Reduced wheel re-invention.

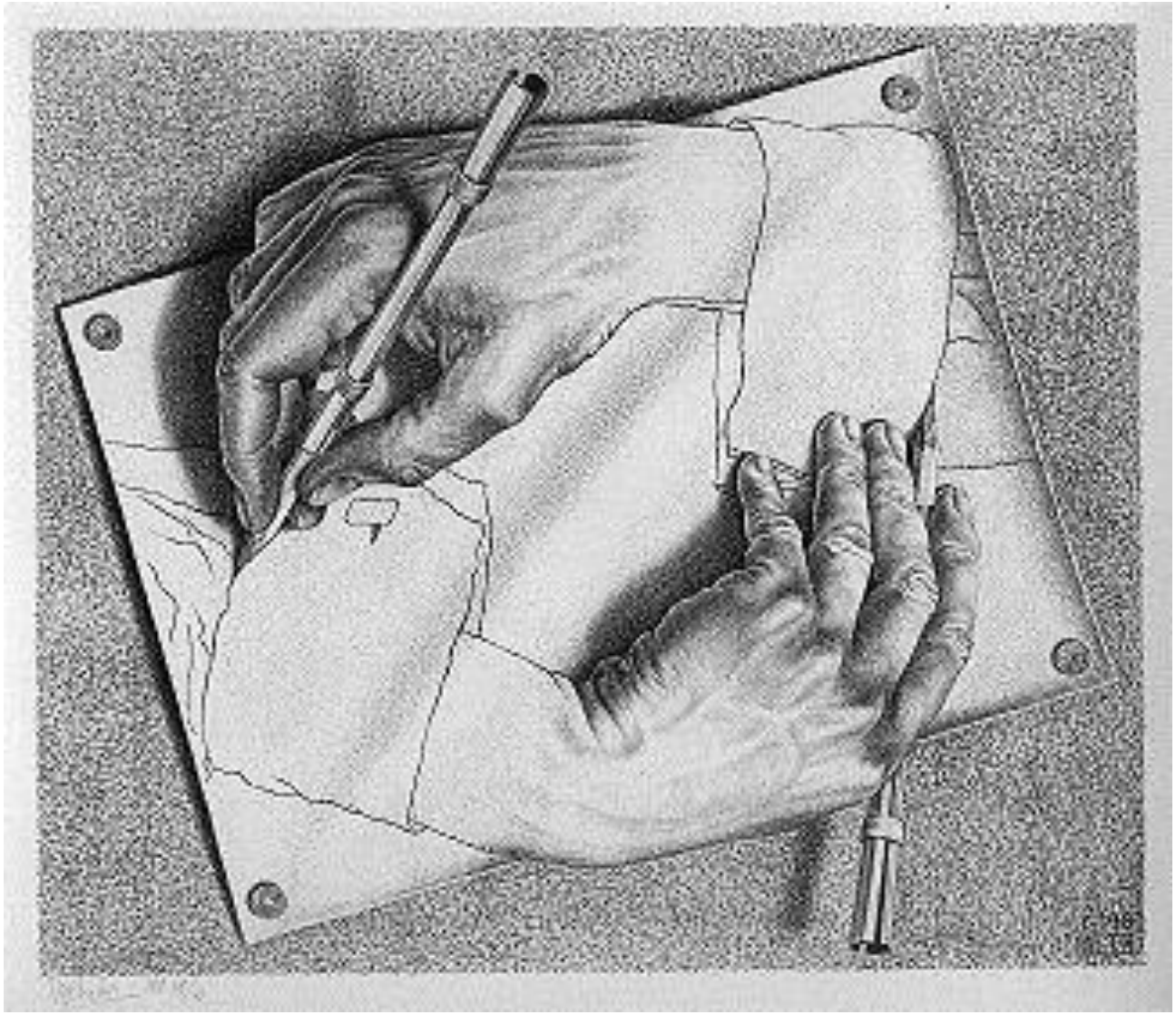
Common data sources "simple and straightforward," but dozens that are not.

New ways and formats that people want data.

An integral part of a comprehensive climate services approach.

ACIS - Applied Climate Information System - A Service for the Community

The Co-Production of Knowledge

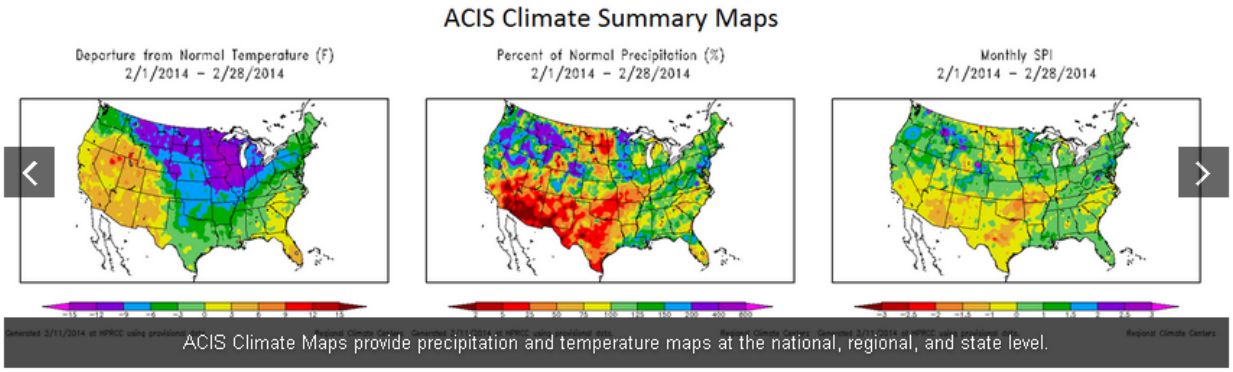


M.C Escher, Drawing Hands, 1948

ACIS Applied Climate Information System

HOME ABOUT ACIS EXAMPLES DOCUMENTATION CONTACT US

www.rcc-acis.org



Announcements

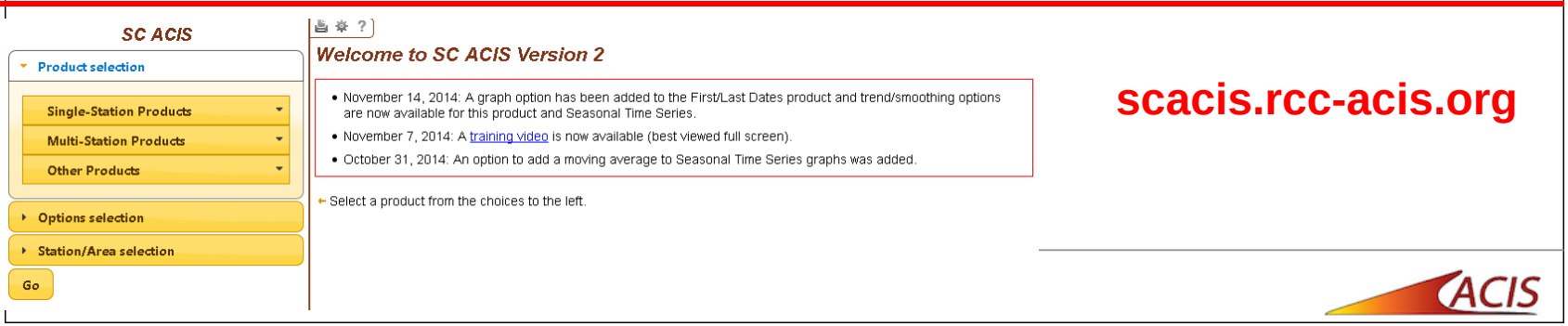
- More web service examples with code have been added to the web service documentation (11/07/2014)
- Press release: **Online Atlas Analyzes Local Drought History** (04/07/2014)
- The latest Quarterly Climate Impacts and Outlook reports are now available! Access the reports **here**. (03/24/2014)
- The ACIS priority scheme was adjusted to give the CF6 a higher priority than GHCN-Daily for the most recent 90 days. (03/14/2014)
- Press release: **New Climate Tools Help Farmers and Advisors Make Informed Decisions** (02/24/2014)
- Removed olddata.rcc-acis.org from service. (02/27/2014)
- Removed testdata.rcc-acis.org. This hostname will only be used for occasional testing. (12/15/2013)

Applied Climate Information System

The Applied Climate Information System (ACIS) was developed and is maintained by the NOAA Regional Climate Centers (RCCs). It was designed to manage the complex flow of information from climate data collectors to the end users of climate data information. The main purpose of ACIS is to alleviate the burden of climate information management for people who use climate information to make management decisions.

1163x948

ACIS is a fully functional system with a flexible design and is constantly evolving to incorporate additional data sources, generate new and improved data products, take advantage of emerging technologies, and respond to the needs of its users.



scacis.rcc-acis.org

ACIS


YOUNG
Thank
You !
20101008